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### Need to mention conjugates (sum of all roots in $GF(p^n)$ )

... The Galois Field used by **XTR**,  $GF(p^6)^*$ , has order  $p^6 - 1$ . This format is taken advantage of when choosing the subgroup for **XTR**. ...

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### The XTR Cryptosystem

... **XTR** uses Galois Fields, denoted  $GF(p^n)$ . A Galois Field is a finite extension field of characteristic  $p$  and extension of degree  $n$ . Galois Fields are finite ...

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### [PDF] Improving XTR

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MIT Laboratory for Computer Science, March 2003 335 Improving **XTR** David Woodruff, Marten ... protocol, Alice and Bob work over some finite field  $GF(p^6)$ , Alice ...

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### [PPT] The XTR Public Key System

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... RSA. ECC. **XTR**. Element representation of  $GF(p^2)$ . Let  $p \equiv 2 \pmod{3}$ , then and  $p$  form an ONB for  $GF(p^2) \times GF(p^2)$ ,  $x = x_1 + x_2 p$ ,  $p = x_1 + x_2 \omega$ . Trace. ...

[algo.csie.nctu.edu.tw/upload/slide/The%20XTR%20Public%20Key%20System.ppt](http://algo.csie.nctu.edu.tw/upload/slide/The%20XTR%20Public%20Key%20System.ppt) - [Similar pages](#)

### gf

... **gf**: FRAME, rocky mountain element to. SHOCK, sid. BOT. BRACKET, race face. CRANKS, race face. CHAINRINGS, race face. PEDALS, time atac. FRONT DER, **xtr**. CHAIN, **xtr**. REAR DER, **xtr**. ...

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### [PDF] The XTR public key system

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... representation in cryptographic protocols is provably as secure as using the traditional representation in  $GF(p^6)$  • either **XTR** is secure (because  $GF(p^6)$  ...

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... **XTR** Extended to  $GF(p)$  Seongan Lim A1, Seungjoo Kim A1, Ikkwon Yie A2, Jaemoon Kim A2, Hongsub Lee A1. A1 KISA (Korea Information ...

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... 1 and where  $p \equiv 2 \pmod{3}$ . Claim: **XTR** achieves the communication advantages and computational costs of  $GF(p^2)$  but has the security of  $GF(p^6)$ . This is ...

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### XTR

... <http://www.comp.mq.edu.au/~igor/Publ.htm>; Seongan Lim, Seungjoo Kim, Ikkwon Yie, Jaemoon Kim, Hongsub Lee: "XTR Extended to GF(p 6m )", Selected Areas in ...  
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... as secure as traditional versions over GF(p6). either XTR is secure (because GF(p6) is secure). ... Either XTR is secure or GF(p6) is not as secure as believed. ...

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... P. Smith, "LUC public-key encryption," Dr. Dobb's Journal ... this family of the public-key cryptosystems is a ... and ER Verheul, The XTR public key systems, Advances ...

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